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ART 34 AMDT

What is claimed is:

1. A method for monitoring the amount of erosion in the wearing parts of a crusher,  
in which method the erosion of the wearing parts of a crusher is monitored by the  
crusher's automatic control system and, as erosion in the wearing parts reaches a  
predetermined depth, the control system initiates predetermined actions, which  
actions comprise issuing an alarm, **characterized** in that information on the amount  
of erosion in a wearing part of the crusher is transmitted wirelessly to the automatic  
control system of the crusher.
2. The method of claim 1, **characterized** in that said predetermined actions  
comprise stopping the crusher.
3. The method of claim 1 or 2, **characterized** in that said predetermined actions  
comprise stopping material infeed to the crusher.
4. The method of any one of claims 1-3, **characterized** in that said predetermined  
actions comprise ordering a wearing part for the crusher.
5. An apparatus for monitoring the amount of erosion in the wearing parts of a  
crusher, the apparatus comprising an automatic control system of the crusher, and at  
least one wear sensor mounted on each of the wearing parts of the crusher,  
**characterized** in that said wear sensor is equipped with means for transmitting the  
measurement signal wirelessly to the automatic control system of the crusher.
6. The apparatus of claim 5, **characterized** in that the wear sensor includes means  
for converting kinetic energy into electrical energy.
7. The apparatus of claim 5, **characterized** in that the wear sensors includes a  
piezoelectric device for generating electrical energy.
8. The apparatus of claim 5, **characterized** in that the wear sensor includes means

for capturing electrical energy from an electromagnetic field surrounding the crusher.

9. The apparatus of any one of claims 5-8, **characterized** in that the wear sensor comprises a conductor embedded in an insulator.